



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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IN REPLY PLEASE

REFER TO FILE: **FLT-0**
A4180

March 10, 2015

TO: Each Supervisor
FROM: Gail Farber *Gail Farber*
Director of Public Works

BOARD MOTION OF JANUARY 10, 1995, SYNOPSIS 8 ANNUAL CLEAN FUELS REPORT

As directed in the Board's motion of January 10, 1995, County departments are to report the composition of their fleet and progress toward the County's goal of transitioning to clean fuels.

The following efforts demonstrate the progress made by Public Works over the last calendar year, which assist in achieving this goal.

- We incorporated 7 additional hybrid sedans into our fleet for a total of 67 hybrid sedans. The hybrids replaced older sedans that were powered by unleaded fuel.
- We added 20 compressed natural gas (CNG) vehicles for a total of 75 CNG vehicles.
- We completed 3 diesel repowers, whereby older engines were replaced with newer, clean-burning diesel engines with lower emission levels.

In addition, the following efforts were made by Public Works to further achieve the Board's goal and improve the air quality within Los Angeles County.

- We continue to only purchase ultra-low-sulfur, diesel fuel for on- and off-road applications.
- We have been awarded grant funding for constructing three CNG fueling stations, upgrading two facilities for CNG vehicle maintenance, and purchasing ten additional CNG heavy-duty vehicles.

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- We continue to purchase on-road diesel vehicles meeting current emission standards, which are equipped with particulate filters and selective catalytic reduction systems.
- In collaboration with Internal Services Department, Public Works installed 11 electric charging stations to promote the use of zero emission electric vehicles.
- We have committed to partner with Plugshare, UC Davis, and California Energy Commission for the Maximizing Mobility, Infrastructure Investment, and Grid Responsiveness in Workplace Electric Vehicle Charging project.
- Public Works has reduced the greenhouse gas (GHG) emissions of fleet vehicles by 16 percent compared to the 2009 baseline emissions. This coincides with meeting the Air Resources Board's Assembly Bill 32, which requires California to reduce at least 15 percent of GHGs by 2020.

Attachment 1 details Public Works' fleet composition for the 2014 calendar year. Included in Attachment 2 is the trend of our fleet's movement towards cleaner burning fuels from 2005 to present as well as our projection through year 2020. Attachment 3 presents the findings regarding Public Works' fuel consumption and GHG emissions.

If you have any questions, please call me or your staff may contact Keith Lehto of our Fleet Management Division at (626) 458-7315.

SC:sh

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Attach.

cc: Chief Executive Office (Rochelle Goff)
County Counsel
Executive Office
Internal Services Department

ANNUAL CLEAN FUELS REPORT
DEPARTMENT OF PUBLIC WORKS - FLEET COMPOSITION
As of February 2015

			FUEL TYPE						
DESCRIPTION	NUMBER OF UNITS		GASOLINE	DIESEL	HYBRID	ELECTRIC	FLEX-FUEL VEHICLES	NATURAL GAS	PROPANE GAS
PUBLIC WORKS OWNED AND OPERATED									
SEDANS	161		94	-	65	-	2	-	-
SPORTS UTILITY & VANS	107		103	-	2	-	2	-	-
LIGHT TRUCKS	938		887	34		-	17	-	-
MEDIUM TRUCKS	235		106	89	-	-	-	38	2
HEAVY DUTY TRUCKS	204		21	167	-	-	-	16	-
SWEEPERS	74		9	13	-	-	-	19	33
CONSTRUCTION EQUIPMENT	205		3	202	-	-	-	-	-
FORKLIFTS	37		16	14	-	5	-	-	2
SUBTOTAL	1961		1239	519	67	5	21	73	37

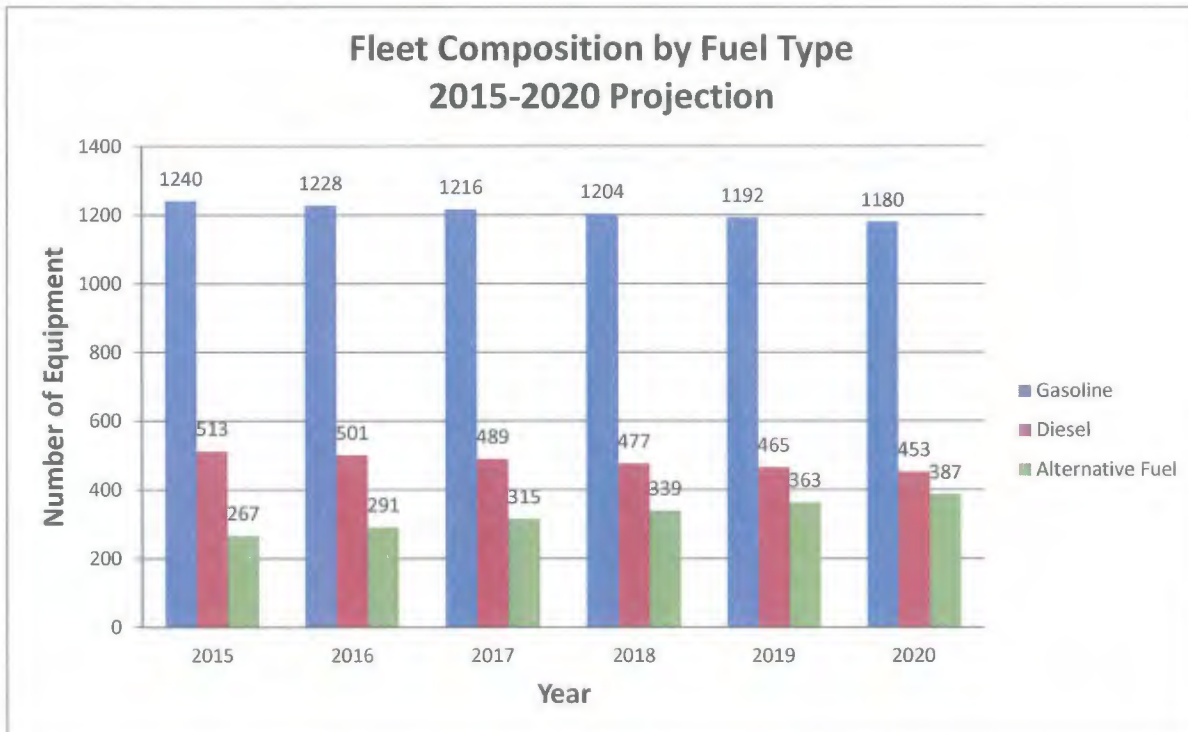
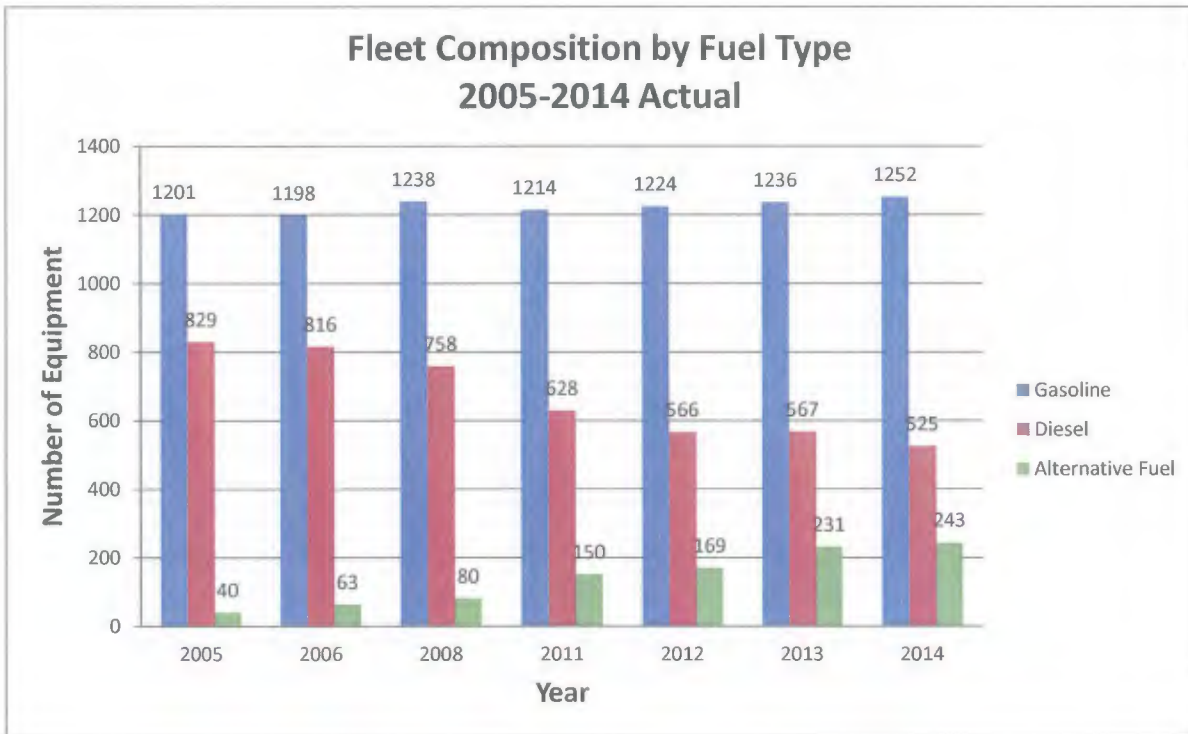
			FUEL TYPE						
DESCRIPTION	NUMBER OF UNITS		GASOLINE	DIESEL	HYBRID	ELECTRIC	FLEX-FUEL VEHICLES	NATURAL GAS	PROPANE GAS
PUBLIC WORKS OWNED									
TRANSIT VANS & SHUTTLES	28		-	-	-	-	16(1)	-	12
TRANSIT COMMERCIAL BUSES	11		-	-	-	-	-	2	9
SUBTOTAL	39		0	0	0	0	16	2	21

			FUEL TYPE						
DESCRIPTION	NUMBER OF UNITS		GASOLINE	DIESEL	HYBRID	ELECTRIC	FLEX-FUEL VEHICLES	NATURAL GAS	PROPANE GAS
PUBLIC WORKS OWNED									
LIGHT TRUCKS	8		8	-	-	-	-	-	-
MEDIUM TRUCKS	3		3		-	-	-	-	-
SWEEPERS	2		1	-	-	-	-	-	1
CONSTRUCTION EQUIPMENT	6		-	6	-	-	-	-	-
FORKLIFTS	1		1	-	-	-	-	-	-
SUBTOTAL	20		13	6	0	0	0	0	1

GRAND TOTAL	2020	1252	525	67	5	37	75	59
PERCENTAGE OF TOTAL FLEET	100.00%	61.98%	25.99%	3.32%	0.25%	1.83%	3.71%	2.92%

Notes:

(1) The 16 vehicles listed under 'Gasoline' on the 2012 report have been identified as E85; therefore their category has been updated to flexfuel.



Note:

1. The number of equipment presented in last year's report under 2014 should be for 2013.
2. Increase in alternative fuel vehicles reflects the purchase of sedans; SUVs; light-, medium-, heavy-duty trucks; and sweepers.

Fleet Management: Green House Gas Emissions

- ☐ Manage Risk
 ☒ Invest In Sustainability
 ☐ Innovate
 ☐ Strengthen the DPW Team
 ☐ Tell the DPW Story

Strategic Focus Area

Goal

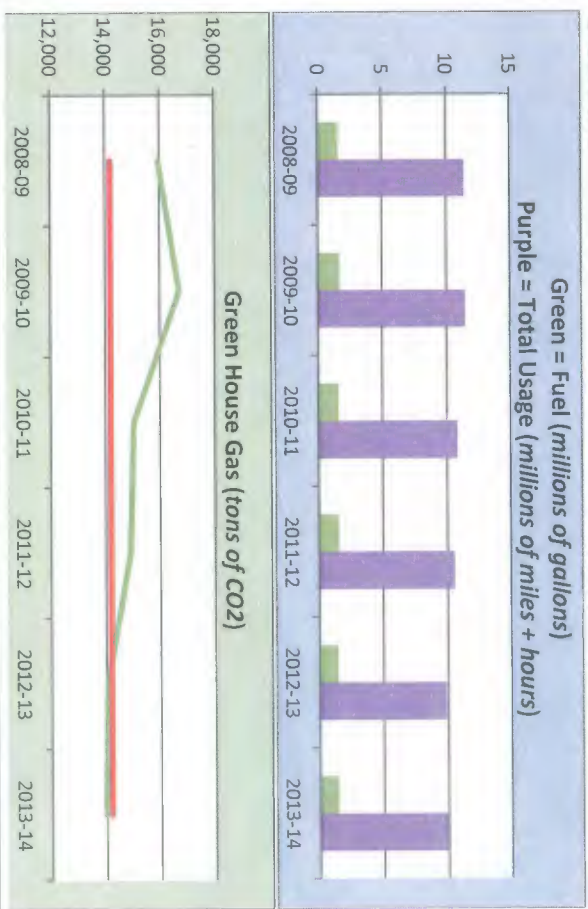
Reduce the amount of Green House Gas (GHG) emitted by operation of the Department of Public Works' (DPW) fleet.

Desired Results

Reduce GHG emissions 15% below 2009 levels by 2020.

TARGET = 16,709 x 0.85 = **14,202 tons** of GHG

Status



Analysis

- Since 2008, DPW has transitioned 151 vehicles to alternative fuels.
- Since 2009, total usage decreased by 13% while GHG emissions decreased by 16%.
- Permittee Mileage, Beach Bus and airport fire suppression operations were not included.
- GHG generated from Liquid Propane Gas and Compressed Natural Gas is negligible.

References: Fuel and Equipment usage from Fiscal Division

DPW > Annual Clean Fuel Report (2014)

U.S. Energy Information Administration (2014)
 18.95 (E10 Unleaded) & 22.38 (Diesel) lbs of CO2 per gallon

Actions

- Replace older vehicles and equipment with newer, more fuel-efficient models.
- Replace unleaded and diesel-fueled vehicles with cleaner burning alternative fuels.
- Expand Electric Vehicles charging network.
- Purchase and incorporate Electric Vehicles into DPW Fleet.
- Develop "No Idling" policy for unleaded fuel vehicles.
- Promote ridesharing, carpooling, and teleconferencing.